

Rumford Upstream Data July 2001 N=20 2 SPMDs per sample <DL=0

Average Temperature

Congener	MDL*	19.34					
		SPMD 21	SPMD 22	SPMD 23	SPMD 24	SPMD 25	SPMD 26
2,3,7,8-TCDF	0.8		11.815	7.814	11.072	8.941	
1,2,3,7,8-PeCDF	2.08		0.626	0.838	1.363	0.612	
2,3,4,7,8-PeCDF	3.13		1.069	1.229	1.148	1.036	
1,2,3,4,7,8-HxCDF	2.59		1.228	0.990	0.934	1.064	
1,2,3,6,7,8-HxCDF	2.46		0.340	0.306	0.557	0.427	
2,3,4,6,7,8-HxCDF	2.88		0.201	0.386	0.342	0.286	
1,2,3,7,8,9-HxCDF	1.68		0.130	0.183	0.135	0.221	
1,2,3,4,6,7,8-HpCDF	2.65		0.390	1.173	0.164	2.896	
1,2,3,4,7,8,9-HpCDF	1.56		0.000	0.108	0.000	0.200	
OCDF	7.18		0.000	0.401	0.000	0.704	
2,3,7,8-TCDD	2.1		0.219	0.243	0.198	0.222	
1,2,3,7,8-PeCDD	2.14		0.166	0.000	0.163	0.088	
1,2,3,4,7,8-HxCDD	3.08		0.195	0.277	0.288	0.287	
1,2,3,6,7,8-HxCDD	1.22		0.611	0.573	0.930	0.506	
1,2,3,7,8,9-HxCDD	2.84		0.000	0.247	0.355	0.362	
1,2,3,4,6,7,8-HpCDD	2.31		1.077	0.825	0.757	0.876	
OCDD	6.7		3.938	2.056	5.764	3.944	
TEQ			2.418	1.998	2.474	2.108	

Congener	MDL*	DOC 7/17 TOC 7/17 Sp. Cond. Flow 7/13					
		SPMD 27	SPMD 28	SPMD 29	SPMD 30	SPMD 31	SPMD 32
		4.5042		4.5066		55.57 1.8	
2,3,7,8-TCDF	0.8			0.000		11.079	10.818
1,2,3,7,8-PeCDF	2.08			1.741		1.159	0.793
2,3,4,7,8-PeCDF	3.13			1.539		1.381	0.764
1,2,3,4,7,8-HxCDF	2.59			1.077		0.987	0.964
1,2,3,6,7,8-HxCDF	2.46			0.430		0.287	0.277
2,3,4,6,7,8-HxCDF	2.88			0.308		0.240	0.168
1,2,3,7,8,9-HxCDF	1.68			0.046		0.124	0.060
1,2,3,4,6,7,8-HpCDF	2.65			3.051		1.377	1.770
1,2,3,4,7,8,9-HpCDF	1.56			0.000		0.127	0.126
OCDF	7.18			0.000		0.000	0.000
2,3,7,8-TCDD	2.1			0.344		0.263	0.305
1,2,3,7,8-PeCDD	2.14			0.077		0.029	0.016
1,2,3,4,7,8-HxCDD	3.08			0.000		0.216	0.029
1,2,3,6,7,8-HxCDD	1.22			0.190		0.367	0.204
1,2,3,7,8,9-HxCDD	2.84			0.048		0.270	0.136
1,2,3,4,6,7,8-HpCDD	2.31			0.000		0.694	0.535
OCDD	6.7			2.291		2.135	2.472
TEQ		0	0	1.518		2.420	2.033

M/z ion ratio data flags, DPE,co-elution etc.

Surrogate recovery data flags

Both M/z ratio and Surrogate Recovery data flags

* MDL from Heather's work

Major problems with pentachlorinated dioxin/furans

<u>DOC 8/10</u>	<u>TOC 8/10</u>	<u>Sp. Cond.</u>	<u>Flow 8/10</u>		
4.6	4.5	61.8	0.5		
<u>SPMD 33</u>	<u>SPMD 34</u>	<u>SPMD 35</u>	<u>SPMD 36</u>	<u>SPMD 37</u>	<u>SPMD 38</u>
				12.816	13.735
				0.153	1.205
				0.440	1.621
				1.004	1.155
				0.279	0.236
				0.261	0.158
				0.096	0.026
				1.480	1.853
				0.208	0.898
				0.283	0.223
				0.241	0.241
				0.000	0.009
				0.110	0.051
				0.488	0.486
				0.134	0.066
				0.881	0.842
				3.309	2.501
	0	0	0	2.013	2.749

<u>SPMD 39</u>	<u>SPMD 40</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%RSD</u>
12.083	1.623	9.254	4.500	48.621
2.765	0.176	1.039	0.748	72.002
2.789	0.351	1.215	0.662	54.474
2.163	0.445	1.092	0.407	37.313
1.316	0.314	0.434	0.307	70.795
1.126	0.254	0.339	0.270	79.676
1.220	0.147	0.217	0.338	155.455
2.398	1.307	1.624	0.915	56.330
1.028	0.120	0.256	0.358	140.042
1.979	0.504	0.372	0.586	157.355
0.419	0.130	0.257	0.077	29.938
0.629	0.206	0.126	0.182	145.091
1.227	0.162	0.258	0.338	130.647
1.484	0.194	0.549	0.380	69.201
1.324	0.224	0.288	0.364	126.607
1.461	0.686	0.785	0.355	45.264
3.766	4.270	3.313	1.153	34.803
4.824	0.878	2.312	0.977	42.251

Rumford Downstream Data July 2001 N=20 2 SPMDs per sample <DL=0

Average Temperature
23.7909

Congener	MDL*	SPMD 1	SPMD 2	SPMD 3	SPMD 4	SPMD 5	SPMD 6
2,3,7,8-TCDF	0.8			7.110	11.622	10.874	2.113
1,2,3,7,8-PeCDF	2.08			0.873	1.573	0.490	0.261
2,3,4,7,8-PeCDF	3.13			0.466	0.630	1.025	0.278
1,2,3,4,7,8-HxCDF	2.59			0.734	0.690	0.495	0.220
1,2,3,6,7,8-HxCDF	2.46			0.254	0.471	0.187	0.260
2,3,4,6,7,8-HxCDF	2.88			0.150	0.415	0.175	0.316
1,2,3,7,8,9-HxCDF	1.68			0.094	0.183	0.035	0.209
1,2,3,4,6,7,8-HpCDF	2.65			1.765	0.388	1.896	1.022
1,2,3,4,7,8,9-HpCDF	1.56			0.134	0.067	0.000	0.000
OCDF	7.18			0.650	0.000	0.000	0.547
2,3,7,8-TCDD	2.1			0.341	0.343	0.296	0.040
1,2,3,7,8-PeCDD	2.14			0.000	0.000	0.084	0.000
1,2,3,4,7,8-HxCDD	3.08			0.076	0.175	0.150	0.318
1,2,3,6,7,8-HxCDD	1.22			0.193	0.660	0.554	0.522
1,2,3,7,8,9-HxCDD	2.84			0.239	0.314	0.318	0.237
1,2,3,4,6,7,8-HpCDD	2.31			0.948	1.537	0.872	0.522
OCDD	6.7			5.193	8.310	4.864	3.756
TEQ		0	0	1.532	2.211	2.224	0.627

DOC 7/17 6.0332 TOC 7/17 6.2299 Sp. Cond. 95.26 Flow 7/13 2.6

Congener	MDL*	SPMD 7	SPMD 8	SPMD 9	SPMD 10	SPMD 11	SPMD 12
2,3,7,8-TCDF	0.8	12.966	9.503	7.640	9.915	7.505	6.803
1,2,3,7,8-PeCDF	2.08	1.422	1.060	0.606	0.988	0.603	0.145
2,3,4,7,8-PeCDF	3.13	1.367	0.331	0.924	1.151	2.554	0.000
1,2,3,4,7,8-HxCDF	2.59	1.068	1.428	0.649	0.703	0.933	0.514
1,2,3,6,7,8-HxCDF	2.46	0.177	0.342	0.186	0.179	0.245	0.186
2,3,4,6,7,8-HxCDF	2.88	0.147	0.279	0.102	0.189	0.199	0.156
1,2,3,7,8,9-HxCDF	1.68	0.038	0.141	0.027	0.115	0.143	0.031
1,2,3,4,6,7,8-HpCDF	2.65	3.068	2.247	1.408	1.573	2.114	1.707
1,2,3,4,7,8,9-HpCDF	1.56	0.124	0.250	0.000	0.099	0.000	0.039
OCDF	7.18	0.000	0.679	0.366	4.036	0.000	0.531
2,3,7,8-TCDD	2.1	0.253	0.397	0.266	0.390	0.200	0.406
1,2,3,7,8-PeCDD	2.14	0.000	0.000	0.000	0.000	0.000	0.000
1,2,3,4,7,8-HxCDD	3.08	0.164	0.161	0.071	0.134	0.287	0.071
1,2,3,6,7,8-HxCDD	1.22	0.599	0.472	0.167	0.144	0.548	0.259
1,2,3,7,8,9-HxCDD	2.84	0.140	0.288	0.057	0.286	0.314	0.176
1,2,3,4,6,7,8-HpCDD	2.31	0.914	0.957	0.706	0.794	1.453	0.746
OCDD	6.7	3.014	3.675	4.653	0.414	6.152	4.575
TEQ		2.579	1.911	1.670	2.207	2.561	1.258

Rumford Downstream Data July 2							
	DOC 8/10	TOC 8/10	Sp. Cond.	Flow 8/10			
	6.2	6.3	115.3	1.3			
Congener	MDL*	SPMD 13	SPMD 14	SPMD 15	SPMD 16	SPMD 17	SPMD 18
2,3,7,8-TCDF	0.8	4.733	4.529	7.177	6.874	9.484	8.823
1,2,3,7,8-PeCDF	2.08	0.160	0.150	1.234	0.527	0.753	2.429
2,3,4,7,8-PeCDF	3.13	1.782	0.000	0.432	0.000	1.322	2.166
1,2,3,4,7,8-HxCDF	2.59	0.611	0.505	0.628	0.499	0.847	1.421
1,2,3,6,7,8-HxCDF	2.46	0.164	0.169	0.184	0.344	0.266	1.176
2,3,4,6,7,8-HxCDF	2.88	0.146	0.138	0.210	0.264	0.194	0.857
1,2,3,7,8,9-HxCDF	1.68	0.040	0.055	0.000	0.197	0.092	1.453
1,2,3,4,6,7,8-HpCDF	2.65	2.218	2.628	3.448	1.351	1.584	0.708
1,2,3,4,7,8,9-HpCDF	1.56	0.023	0.074	0.000	0.189	0.119	0.681
OCDF	7.18	0.569	0.415	0.461	0.592	0.363	0.000
2,3,7,8-TCDD	2.1	0.503	0.443	0.289	0.372	0.566	0.825
1,2,3,7,8-PeCDD	2.14	0.000	0.000	0.000	0.000	0.017	0.864
1,2,3,4,7,8-HxCDD	3.08	0.063	0.051	0.220	0.166	0.128	1.207
1,2,3,6,7,8-HxCDD	1.22	0.209	0.226	0.508	0.473	0.446	2.083
1,2,3,7,8,9-HxCDD	2.84	0.226	0.167	0.000	0.333	0.246	0.795
1,2,3,4,6,7,8-HpCDD	2.31	0.938	0.850	1.323	0.848	0.964	1.208
OCDD	6.7	6.087	3.690	6.114	3.790	3.001	3.806
TEQ		2.054	1.070	1.507	1.338	2.479	4.701

Congener	MDL*	SPMD 19	SPMD 20	Mean	Std. Dev.	%RSD
2,3,7,8-TCDF	0.8		3.987	7.745	2.870	37.057
1,2,3,7,8-PeCDF	2.08		0.187	0.792	0.618	78.062
2,3,4,7,8-PeCDF	3.13		0.000	0.849	0.790	93.039
1,2,3,4,7,8-HxCDF	2.59		0.500	0.732	0.325	44.334
1,2,3,6,7,8-HxCDF	2.46		0.266	0.297	0.241	80.910
2,3,4,6,7,8-HxCDF	2.88		0.235	0.245	0.175	71.453
1,2,3,7,8,9-HxCDF	1.68		0.136	0.189	0.332	176.171
1,2,3,4,6,7,8-HpCDF	2.65		1.863	1.823	0.780	42.814
1,2,3,4,7,8,9-HpCDF	1.56		0.160	0.115	0.164	142.436
OCDF	7.18		1.633	0.638	0.963	150.963
2,3,7,8-TCDD	2.1		0.249	0.363	0.170	46.704
1,2,3,7,8-PeCDD	2.14		0.000	0.057	0.209	368.147
1,2,3,4,7,8-HxCDD	3.08		0.112	0.209	0.268	128.186
1,2,3,6,7,8-HxCDD	1.22		0.504	0.504	0.440	87.316
1,2,3,7,8,9-HxCDD	2.84		0.302	0.261	0.167	63.886
1,2,3,4,6,7,8-HpCDD	2.31		1.606	1.011	0.307	30.357
OCDD	6.7		14.044	5.008	2.891	57.729
TEQ		0.000	0.900	1.931	0.927	48.023